

Listing of Claims:

The listing of the claims will replace all prior versions, and listings, of claims in the application.

Please amend claim 5.

1. (Withdrawn) A human gene for synthesizing an enzyme catalyzing human N-linked sugar chain synthesis, which is homologous with a gene of an enzyme catalyzing N-linked sugar chain synthesis in yeast endoplasmic reticulum, and is capable of complimenting the function of said gene for a deletion yeast strain of said gene.

2. (Withdrawn) The human gene according to claim 1, wherein the enzyme catalyzing human N-linked sugar chain synthesis is a glycosyltransferase.

3. (Previously presented) A gene which encodes the amino acid sequence represented by SEQ ID NO: 6 or a protein which comprises an amino acid sequence in which one or more amino acids in the amino acid sequence represented by SEQ ID NO: 6 is deleted, substituted or added.

4. (Withdrawn) The gene according to claim 3, which comprises the nucleotide sequence represented by SEQ ID NO: 1, 3, 5, 7 or 9.

5. (Currently Amended) A method for diagnosing human congenital disorders of glycosylation syndrome, which comprises using the gene encoding the amino acid sequence according to claim 3 or the gene represented by SEQ ID NO: 5.

6. (Withdrawn) A recombinant vector which is integrated with the gene according to any one of claims 1 to 3 a gene selected from the group consisting of:

a human gene for synthesizing an enzyme catalyzing human N-linked sugar chain synthesis, which is homologous with a gene of an enzyme catalyzing N-linked sugar chain synthesis in yeast endoplasmic reticulum, and is capable of complimenting the function of said gene for a deletion yeast strain of said gene; and

a gene which encodes the amino acid sequence represented by SEQ ID NO: 2, 4, 6, 8 or 10 or a protein which comprises an amino acid sequence in which one or more amino acids in the amino acid sequence represented by SEQ ID NO: 2, 4, 6, 8 or 10 are deleted, substituted or added.

7. (Withdrawn) A transformant which is transformed by the recombinant vector according to claim 6.

8. (Withdrawn) A process for producing an enzyme catalyzing human N-linked sugar chain synthesis, which comprises culturing the transformant according to claim 7 in a culture, and collecting the enzyme catalyzing human N-linked sugar chain synthesis from the culture.

9. (Withdrawn) A method for synthesizing a human N-linked sugar chain, which comprises using the enzyme according to claim 8.